3400 Integrated Amplifier

Date of manufacture : Jan 85 - ?

Please note that this document contains the text from the original product brochure, and some technical statements may now be out of date

The 3400 offers all of the advanced circuitry and control features of the 3100, plus higher power, more sophisticated tone controls, and the convenience of remote-control operation.
The power amplifier section of the 3400 is the NAD 2400 Power Amplifier.
Conservatively rated at 100 watts per channel for continuous test tones, its Power Envelope circuit produces 370 to 440 watts/channel of long-term tone-burst power for musical climaxes. For special situations it can be converted to a bridged mono amp with twice the power (200 watts continuous, 800 watts dynamic) and paired with the 2400 for stereo. Current peaks of up to 40 amperes are available to control voice-coil motion in low-impedance speakers.
Only a very few expensive separate power amplifiers can equal the solid speaker-driving power of the 3400.

In the 3400, the phono pre-amp, wide-range line-level input circuits and all operating controls are the same as those in NAD's finest preamplifier, the 1300.
They are virtually overload-proof, with 10 volts of headroom for peaks (14 dB more than needed to accommodate the maximum output of any CD player), and they are also exquisitely free from hum and noise; the signal/noise ratio of the 3400, from the CD input to the speaker terminals, is an impressive 116 dB. The most subtle details and faintest traces of hall ambience are reproduced with perfect clarity.
Bass EQ and infrasonic filtering provide solid, powerful deep bass response without boomy midbass.
Semi-parametric tone controls combine the simplicity of ordinary bass and treble controls with the musically useful flexibility of a two-band parametric equalizer. And for total operating convenience you can use the 3400 Amplifier with NAD's System Remote Control.

PRE-AMP SECTION

Phono input		
Input impedance *(R and C)*	MM	47kΩ / 100/200/300pF
	MC	100Ω / 1000pF
Input sensitivity, 1kHz	MM	2.2mV ref. 0.5V
	MC	0.11mV
Signal/Noise ratio *(A-weighted with cartridge connected)*	MM	80dB ref. 5mV
	MC	78dB ref. 0.5mV
THD *(20Hz - 20kHz)*		<0.02%
RIAA response accuracy *(20Hz - 20kHz)*		±0.3dB
Line level inputs		
Input impedance *(R and C)*		50kΩ / 250pF
Input sensitivity *(ref. 1W)*		15mV
Maximum input signal		10V
Signal/Noise ratio *(A-weighted ref 1W)*		96dB
Frequency response		20Hz - 20kHz / ±0.3dB
Line level outputs		
Output impedance	Pre-amp	600Ω
	Tape	Source Z + 1kΩ
Maximum output level	Pre-amp	10V
Tone controls		
Treble		±12dB at 3, 6 or 12kHz
Bass		±12dB at 50, 100 or 250Hz
Bass EQ		+3dB at 60Hz
		+6dB at 36Hz
Infrasonic filter *(switchable)*		-3dB at 12Hz - 12dB/octave

POWER AMP SECTION

Continuous output power into 8Ω *		100W (20dBW)
Rated distortion *(THD 20Hz - 20kHz)*		0.03%
Clipping power *(maximum continuous power per channel)*		130W
IHF Dynamic headroom at 8Ω		+5.7dB
IHF dynamic power *(maximum short term power per channel)*	8Ω	370W (25.7dBW)
	4Ω	400W (26dBW)
	2Ω	440W (26.4dBW)
Damping factor *(ref. 8Ω, 50Hz)*		>100
Input impedance		20kΩ / 600pF
Input sensitivity *(for rated power into 8Ω)*		1V
Frequency response		3Hz - 100kHz / +0, -3dB
Signal/noise ratio	ref. 1W	98dB
	ref. rated power	118dB
THD *(20Hz - 20kHz)*		<0.03%
Remote		Yes
NAD Link		Yes

PHYSICAL SPECIFICATIONS

Dimensions (W x H x D)	435 x 120 x 385mm
Net weight	11kg
Shipping weight	12.6kg
Power consumption *(120 ~ 240V, 50/60Hz)*	390VA

* Minimum power per chnnel, 20Hz - 20kHz, both channels driven with no more than rated distiortion.

Dimensions are of unit's cabinet without attached feet; add up to 18mm for total height.

Dimension depth excludes terminals, sockets, controls and buttons.

© NAD Electronics. All rights reserved. E & OE